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# NASA Procedural Requirements

**COMPLIANCE IS MANDATORY**

**NPR 2830.1**  
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## Subject: NASA Enterprise Architecture Procedures

Responsible Office: Office of the Chief Information Officer

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## Preface

### P.1 Purpose

The purpose of Enterprise Architecture (EA) is to inform and optimize the information technology (IT) investment decision process and, therefore, maximize the contribution of IT to Agency success. Effective EA management shall ensure that IT expenditures are aligned with Center, Mission Directorate, and Agency goals while reducing unnecessary duplication of both material expenditures and efforts. EA shall also provide a vision of the future state of new capabilities that will allow detailed planning to occur in conjunction with Agency and Federal Government-level initiatives and mandates.

EA leverages existing, required project management work products and harnesses them so they can be leveraged by the entire Agency. EA is both a source and a consumer of project management artifacts and, therefore, forms an information bridge and repository between the enterprise current state and future state. This document defines the management body of work required to construct and populate the EA and define the role the EA will fulfill in decision support. Finally, EA is a Federal-level mandate with associated reporting requirements. Data collection efforts will support and leverage these reporting requirements as well.

### P.2 Applicability

This NPR is applicable to NASA Headquarters and NASA Centers, including Component Facilities.

## P.3 Authority

- a. 40 U.S.C. <sup>o</sup> 11101 et seq., Clinger-Cohen Act of 1996, also known as the Information Technology Management Reform Act, as amended.
- b. 5 U.S.C. <sup>o</sup> 552a, Privacy Act of 1974, as amended.
- c. 29 U.S.C. <sup>o</sup> 794(d), Rehabilitation Act of 1973, as amended.
- d. 31 U.S.C. <sup>o</sup> 501 et seq., Chief Financial Officers Act of 1990, as amended.
- e. 40 U.S.C. <sup>o</sup> 11331, Computer Security Act of 1987: Responsibilities for Federal Information Systems Standards, as amended.
- f. 31 U.S.C. <sup>o</sup> 1101 et seq., Government Performance and Results Act of 1993, as amended.
- g. 41 U.S.C. <sup>o</sup> 251, Federal Acquisition Streamlining Act of 1994, as amended.
- h. 44 U.S.C. <sup>o</sup> 101 et seq. and 44 U.S.C. <sup>o</sup> 3501 et seq., Paperwork Reduction Act of 1995, as amended.
- i. 44 U.S.C. <sup>o</sup> 3601 et seq., E-Government Act of 2002: Management and Promotion of Electronic Government Services, as amended.
- j. 44 U.S.C. <sup>o</sup> 3504, Government Paperwork Elimination Act of 1998, as amended.
- k. 40 U.S.C. <sup>o</sup> 11311, Federal Information Security Management Act (FISMA) of 2002: Responsibilities for Acquisitions of Information Technology, as amended.

## P.4 References

- a. NPD 1000.0, Strategic Management and Governance Handbook (2005).
- b. NPD 2810.1, Security of Information Technology.
- c. NPD 2820.1, NASA Software Policies.
- d. NPD 2830.1, NASA Enterprise Architecture.
- e. NPD 4200.1, Equipment Management.
- f. NPD 7120.4, Program/Project Management (Revalidated for one year 12/6/04), (cited as a resource).
- g. NPD 8831.1, Maintenance of Institutional and Program Facilities and Related Equipment.
- h. NPR 2810.1, Security of Information Technology.
- i. NPR 4200.1, NASA Equipment Management Manual.
- j. NPR 4200.2, Equipment Management Manual for Property Custodians.
- k. NPR 7120.5, NASA Program and Project Management Processes and Requirements.
- l. NPR 7150.2, NASA Software Engineering Requirements.
- m. NPR 8831.2, Facilities Maintenance Management.

- n. NASA-STD-8739.8, Software Assurance Standard.
- o. NASA-STD-2202-93, Software Formal Inspection Process Standard.
- p. NASA-STD-2804, Minimum Interoperability Software Suite.
- q. NASA-STD-2805, Minimum Hardware Configurations.
- r. NASA-STD-2814, Technical Architecture ? Volume 1 (June 27, 2000).
- s. NASA-STD-2814, Considerations for Agency-Wide and Inter-Center Deployment of IT Services and Applications - Volume 2 (June 27, 2000).
- t. National Institute of Standards and Technology (NIST) Specific Publications 800 Series (cited as a resource).
- u NASA Enterprise Architecture Version 4.0 Documentation.
  - (1) EA Volume 1: Strategy and Overview (September 2005).
  - (2) EA Volume 2: Agency Business Overview (September 2005).
  - (3) EA Volume 3: Office Automation, IT Infrastructure, and Telecommunications Investment (September 2005).
  - (4) EA Volume 4: Program Unique IT and Multi-Program/Project IT Investment Category (September 2005).
- v. NASA Information Technology Capital Planning and Investment Control Process (CPIC) (September 2004).
- w. OMB No. A-94, Guidelines and Discount Rates for Benefit-Cost Analysis of Federal Programs.
- x. OMB Circular No. A-123, Management Accountability and Control (June 21, 1995).
- y. OMB Circular No. A-130, Appendix III Management of Federal Information Resources (November 28, 2000).
- z. OMB Circular No. A-11, Preparation, Submission and Execution of the Budget (Revised November 2, 2005).
- aa. OMB 97-02, Funding Information Systems Investments.
- ab. President's Management Agenda of 2002.
- ac. SP 610S NASA Systems Engineering Handbook (1995) (cited as a resource).
- ad. IEM Integration Project Risk Management Plan (cited as a resource).

## P.5 Cancellation

None.

/s/

Patricia L. Dunnington  
Chief Information Officer

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